



Waterjet System Application

Ring Production

Application

Stainless steel

.375" (9,5 mm) thick

80 slots

4.25" (108 mm) tool path/slot

34" (864 mm) outer ring diameter

± 0.001 " (0,025 mm) cutting accuracy in .375" (9,5 mm) material thickness

± 0.0015 " (0,04 mm) cutting accuracy in .5" (13 mm) material thickness

Process

Only one setup

Virtual simulation verification

Five-axis CAM programming

Statistical process control

Vision inspection

Cycle Time

3 hours 20 minutes versus 17 hours EDM processing

Machine Features and Benefits

Huffman Five- and Six-Axis Waterjet Machining Systems

High volumetric material removal without blur and heat-affected zones

Low consumable cost

Reduced scrap and secondary operations

Cut in axial or radial direction for increased flexibility

Faster cycle time

No starting hole required

Five or six axes, including rotary wrist, provide contouring capability

From design to fabrication in a single day

Minimal fixturing reduces fixture costs and changeover time

